

YOR920030351US1
Amendment dated 11/07/2008

10/714,620

00280747aa
Reply to office action mailed 08/07/2008

The following is a complete listing of all claims in the application, with an indication of the status of each:

Listing of claims:

1 1-14. (canceled)

1 15. (currently amended) A stochastic integer programming based constrained
2 optimization method implemented by a computer for allocation of classrooms
3 and instructors to requested classes associated with cancellation probabilities,
4 the computer performing ~~comprising~~ the steps of:
5 ~~inputting~~ receiving input of a list of classes by location city, preferred
6 time window, their cancellation probabilities and available classrooms and
7 instructors;
8 analyzing operational revenue/profit under different planning
9 scenarios involving chaining of various classes, prerequisite relationships, and
10 inter-class spacing requirements;
11 generating a revenue/profit optimization model of overall operational
12 revenue/profit under the different planning scenarios by location city,
13 including a penalty cost for cancellation due to a missing classroom or a
14 missing instructor;
15 solving a stochastic program of a revenue/profits optimization model
16 by solving its deterministic equivalent; and
17 outputting a list of classes scheduled by curriculum identification (ID),
18 corresponding start date, allocated classrooms, location city, allocated
19 instructor, and expected revenue,
20 wherein said start date for each class is calculated based on lengths of
21 each class and available time windows for each class, and said start date for

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22 each class that is a back-to-back class is calculated based on lengths of each
23 back-to-back class and available time windows for each back-to-back class,
24 wherein said allocated classrooms for each class is calculated based on
25 tier codes for each class and available classrooms during allowable time
26 windows for each class, and said allocated classrooms for each back-to-back
27 class is calculated based on lengths of each back-to-back class and available
28 time windows for each back-to-back class,
29 wherein said allocated instructors for each class is calculated based on
30 available instructors with required skills during allowable time windows for
31 each class, and said allocated instructors for each back-to-back class is
32 calculated based on lengths of each back-to-back class and available time
33 windows for each back-to-back class.